



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	0.97	1.26	1.60	2.03	2.53	3.13							
25.0	0.92	1.20	1.54	1.94	2.43	3.01	3.68						
30.0	0.87	1.14	1.46	1.86	2.32	2.88	3.53	3.82	4.29				
35.0	0.81	1.07	1.38	1.76	2.21	2.75	3.37	3.65	4.10	4.51	4.94		
40.0	0.75	1.01	1.30	1.66	2.09	2.60	3.20	3.47	3.90	4.29	4.71	5.63	
45.0	0.70	0.93	1.22	1.56	1.97	2.46	3.03	3.28	3.70	4.07	4.47	5.36	6.37
50.0	0.64	0.86	1.14	1.46	1.84	2.31	2.85	3.09	3.48	3.84	4.22	5.07	6.04
55.0	0.58	0.79	1.04	1.35	1.72	2.15	2.66	2.89	3.26	3.60	3.96	4.77	5.70
60.0		0.72	0.96	1.24	1.58	1.99	2.47	2.69	3.04	3.36	3.70	4.47	5.35
65.0			0.87	1.13	1.44	1.82	2.27	2.48	2.81	3.11	3.43	4.15	4.99
70.0				1.02	1.30	1.66	2.07	2.26	2.57	2.85	3.15	3.83	
75.0				0.90	1.16	1.48	1.87	2.04	2.33	2.59	2.87		

50 Hz

ZH12K4E-PFZ

R134a

Cond °C	Power, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	0.48	0.49	0.50	0.51	0.52	0.53							
25.0	0.52	0.53	0.55	0.56	0.57	0.58	0.60						
30.0	0.57	0.58	0.59	0.60	0.62	0.63	0.65	0.65	0.66				
35.0	0.61	0.63	0.64	0.66	0.67	0.69	0.70	0.71	0.72	0.73	0.74		
40.0	0.66	0.68	0.70	0.72	0.73	0.75	0.77	0.77	0.78	0.79	0.80	0.82	
45.0	0.72	0.74	0.76	0.78	0.80	0.82	0.84	0.84	0.86	0.86	0.88	0.90	0.92
50.0	0.78	0.80	0.82	0.84	0.87	0.89	0.91	0.92	0.93	0.94	0.96	0.98	1.01
55.0	0.84	0.87	0.89	0.92	0.94	0.97	0.99	1.01	1.02	1.03	1.04	1.07	1.10
60.0		0.94	0.97	1.00	1.03	1.06	1.08	1.10	1.11	1.12	1.14	1.17	1.20
65.0			1.06	1.08	1.12	1.15	1.18	1.20	1.22	1.23	1.25	1.28	1.31
70.0				1.18	1.22	1.26	1.29	1.30	1.32	1.34	1.36	1.40	
75.0				1.29	1.33	1.37	1.41	1.42	1.45	1.47	1.49		

Cond °C	Current at 230 V, A												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	2.25	2.29	2.33	2.38	2.42	2.47							
25.0	2.42	2.47	2.52	2.56	2.61	2.67	2.72						
30.0	2.60	2.66	2.71	2.77	2.82	2.88	2.94	2.97	3.01				
35.0	2.80	2.86	2.93	2.99	3.05	3.11	3.18	3.21	3.25	3.29	3.33		
40.0	3.01	3.08	3.16	3.23	3.30	3.37	3.44	3.47	3.52	3.56	3.60	3.69	
45.0	3.23	3.32	3.41	3.49	3.57	3.65	3.74	3.77	3.82	3.87	3.91	4.01	4.11
50.0	3.48	3.58	3.68	3.78	3.87	3.96	4.06	4.10	4.16	4.21	4.26	4.36	4.47
55.0	3.75	3.87	3.98	4.09	4.20	4.31	4.42	4.46	4.53	4.58	4.64	4.75	4.87
60.0		4.19	4.32	4.44	4.57	4.69	4.81	4.86	4.94	5.00	5.06	5.19	5.32
65.0			4.68	4.83	4.97	5.11	5.25	5.30	5.39	5.46	5.53	5.67	5.82
70.0				5.25	5.41	5.57	5.73	5.79	5.89	5.96	6.04	6.20	
75.0				5.72	5.90	6.08	6.26	6.33	6.43	6.52	6.61		

Cond °C	Suction Mass Flow, g/s													
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	
20.0	5.95	7.54	9.44	11.70	14.35	17.40								
25.0	5.90	7.51	9.43	11.70	14.35	17.45	21.00							
30.0	5.83	7.46	9.40	11.70	14.35	17.45	21.00	22.50	25.00					
35.0	5.73	7.39	9.34	11.65	14.30	17.40	20.90	22.50	25.00	27.20	29.50			
40.0	5.63	7.30	9.27	11.55	14.25	17.30	20.90	22.40	24.90	27.10	29.50	34.60		
45.0	5.50	7.20	9.17	11.45	14.15	17.20	20.80	22.30	24.80	27.00	29.40	34.50	40.30	
50.0	5.37	7.08	9.05	11.35	14.00	17.05	20.60	22.20	24.60	26.90	29.20	34.40	40.10	
55.0	5.23	6.94	8.91	11.20	13.85	16.90	20.40	22.00	24.50	26.70	29.00	34.20	40.00	
60.0		6.80	8.75	11.00	13.65	16.70	20.20	21.70	24.20	26.40	28.80	34.00	39.80	
65.0			8.59	10.85	13.45	16.45	19.95	21.50	24.00	26.20	28.50	33.70	39.50	
70.0				10.60	13.20	16.20	19.65	21.20	23.70	25.90	28.20	33.40		
75.0				10.40	12.95	15.90	19.35	20.90	23.30	25.60	27.90			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	4.68
Length/Width, mm	272/193
Height, mm	388
Net Weight, kg	21.3
Gross Weight, kg	23.3
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	NA (0)
Sound Pressure @ 1m (HT), dBA	53
Sound Power (HT), dBA	64
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1430
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)

Maximum Operating Current, A	9.9
Locked Rotor Current, A	44
Winding Resistance, ohm	1.79
Default Enclosure Class	IP 21 (IEC 34)

50 Hz

ZH12K4E-PFZ

R134a

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
PFZ	220-240 V / 1~ / 50 Hz	230		PSC	1.00